

RESULTS :

$$\mathbf{G} = \mathbf{10}^{1000}$$

<i>b</i> :	<i>b</i> := <i>nextprime</i> (<i>b</i> + <i>rand</i> (100..150))	<i>b</i> := <i>nextprime</i> (<i>b</i> +100)	<i>b</i> :=
<i>nextprime</i> (<i>b</i> +150)			

$n - G$	b	$n - G - b$
500000, 54133, 445867	500000, 139387, 360613	500000, 361069, 138931
500002, 40693, 459309	500002, 40693, 459309	500002, 40693, 459309
500004, 422393, 77611	500004, 731447, -231443	500004, 535637, -35633
500006, 49157, 450849	500006, 54139, 445867	500006, 277789, 222217
500008, 222991, 277017	500008, 205651, 294357	500008, 205651, 294357
500010, 259451, 240559	500010, 100109, 399901	500010, 138959, 361051
500012, 521981, -21969	500012, 40693, 459319	500012, 40693, 459319
500014, 622561, -22547	500014, 261823, 238191	500014, 145501, 354513
500016, 342929, 157087	500016, 82913, 417103	500016, 198659, 301357
500018, 25097, 474921	500018, 300889, 199129	500018, 26309, 473709
500020, 95083, 404937	500020, 12583, 487437	500020, 77347, 422673
500022, 201821, 298201	500022, 233591, 266431	500022, 160709, 339313
500024, 226337, 273687	500024, 159871, 340153	500024, 162553, 337471
500026, 255859, 244167	500026, 106087, 393939	500026, 106087, 393939
500028, 8147, 491881	500028, 608459, -108431	500028, 263009, 237019
500030, 83833, 416197	500030, 30347, 469683	500030, 151813, 348217
500032, 43261, 456771	500032, 43261, 456771	500032, 24049, 475983
500034, 162251, 337783	500034, 201833, 298201	500034, 400031, 100003
500036, 179203, 320833	500036, 186859, 313177	500036, 145037, 354999
500038, 12601, 487437	500038, 95101, 404937	500038, 854257, -354219
500040, 608471, -108431	500040, 121763, 378277	500040, 121763, 378277
500042, 157103, 342939	500042, 9029, 491013	500042, 8161, 491881
500044, 145531, 354513	500044, 148663, 351381	500044, 145987, 354057
500046, 440303, 59743	500046, 304847, 195199	500046, 304847, 195199
500048, 162577, 337471	500048, 157109, 342939	500048, 12611, 487437
500050, 258637, 241413	500050, 40459, 459591	500050, 163729, 336321
500052, 111791, 388261	500052, 8171, 491881	500052, 100151, 399901

500054, 139661, 360393 500056, 126397, 373659 500058, 40739, 459319 500060, 106121, 393939	500054, 223037, 277017 500056, 49207, 450849 500058, 301349, 198709	500054, 155291, 344763 500056, 126397, 373659 500058, 208277, 291781 500060, 67547, 432513
<i>Computationtime:= 179.343 sec</i>	<i>Computationtime:= 188.250 sec</i>	<i>Computationtime:= 163.828 sec</i>

b:= nextprime(b+rand(150..175)) b:= nextprime(b+rand(140..160))

<i>n-G b n-b-G</i>	<i>n-G b n-b-G</i>	
500000, 139387, 360613 500002, 90481, 409521 500004, 422393, 77611 500006, 145007, 354999 500008, 604339, -104331 500010, 138959, 361051 500012, 221021, 278991 500014, 334843, 165171 500016, 297779, 202237 500018, 167267, 332751 500020, 54577, 445443 500022, 139409, 360613 500024, 336491, 163533 500026, 12589, 487437 500028, 263009, 237019 500030, 145517, 354513 500032, 334861, 165171 500034, 163697, 336337 500036, 318979, 181057 500038, 221047, 278991 500040, 761591, -261551 500042, 178691, 321351 500044, 54601, 445443 500046, 174989, 325057 500048, 84229, 415819 500050, 163729, 336321 500052, 159899, 340153 500054, 155291, 344763	500000, 112429, -387571 500002, 40693, 459309 500004, 277787, 222217 500006, 82903, 417103 500008, 148627, 351381 500010, 139397, 360613 500012, 40693, 459319 500014, 145501, 354513 500016, 388313, 111703 500018, 258329, 241689 500020, 77347, 422673 500022, 453683, 46339 500024, 67511, 432513 500026, 221197, 278829 500028, 263009, 237019 500030, 112459, 387571 500032, 178681, 321351 500034, 208253, 291781 500036, 274019, 226017 500038, 14071, 485967 500040, 162257, 337783 500042, 361111, 138931 500044, 52903, 447141 500046, 582299, -82253 500048, 8167, 491881 500050, 67537, 432513 500052, 111791, 388261 500054, 126641, 373413	Record : 116 sec; see in researchgate files PDFGOLDBACHTEST4,10 (For n from G+5000000 to 5000058 by 2), [37].

500056, 166183, 333873 500058, 151841, 348217 <i>Computtime:= 174.438 sec</i>	500056, 126397, 373659 500058, 40739, 459319 <i>Computtime:= 138.578 sec</i>	
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500000, 9473, 490527
 500002, 24019, 475983
 500004, 8123, 491881
 500006, 9479, 490527
 500008, 25087, 474921
 500010, 57917, 442093
 500012, 8999, 491013
 500014, 9001, 491013
 500016, 40697, 459319
 500018, 9491, 490527
 500020, 9007, 491013
 500022, 139409, 360613
 500024, 9011, 491013
 500026, 9013, 491013
 500028, 8147, 491881
 500030, 26321, 473709
 500032, 24049, 475983
 500034, 54167, 445867
 500036, 57943, 442093
 500038, 9511, 490527
 500040, 57947, 442093
 500042, 8161, 491881
 500044, 24061, 475983
 500046, 162263, 337783
 500048, 8167, 491881
 500050, 12613, 487437
 500052, 8171, 491881
 500054, 9041, 491013
 500056, 9043, 491013
 500058, 40739, 459319

Computingtime : 343.453 sec

$$G = 10^{2000}$$

<i>n - G</i>	<i>n - b - G</i>	<i>b</i>	<i>n - G</i>	<i>b</i>	<i>n - b - G</i>
40000, 39957,		43	40050, 86117, -46067		
40002, 39091,		911	40052, 503, 39549		
40004, 39957,		47	40054, 97, 39957		
40006, 39549,		457	40056, 89393, -49337		
40008, 25369, 14639			40058, 101, 39957		
40010, 39957,		53	40060, 103, 39957		
40012, 39549,		463	40062, 971, 39091		
40014, 17737, 22277			40064, 107, 39957		
40016, 39957,		59	40066, 109, 39957		
40018, 39957,		61	40068, 977, 39091		
40020, 39091,		929	40070, 113, 39957		
40022, 39141,		881	40072, 523, 39549		
40024, 39957,		67	40074, 983, 39091		
40026, 35443,	4583		40076, 16937, 23139		
40028, 39957,		71	40078, 937, 39141		
40030, 39957,		73	40080, 4637, 35443		
40032, 39091,		941	40082, 941, 39141		
40034, 35443,	4591		40084, 127, 39957		
40036, 39957,		79	40086, 4643, 35443		
40038, 39091,		947	40088, 131, 39957		
40040, 39957,		83	40090, 541, 39549		
40042, 23139,	16903		40092, 4649, 35443		
40044, 39091,		953	40094, 137, 39957		
40046, 39957,		89	40096, 139, 39957		
40048, 39549,		499	40098, 31991, 8107		
			40100, 1009, 39091		

$$G = 10^{3000}$$

$$n - G \quad b \quad n - b - G$$

100000, 36529, 63471
 100002, 77069, 22933
 100004, 22717, 77287
 100006, 181873, -81867
 100008, 12239, 87769
 100010, 4547, 95463
 100012, 4549, 95463
 100014, 22727, 77287
 100016, 59497, 40519
 100018, 24847, 75171
 100020, 12251, 87769
 100022, 12253, 87769
 100024, 4561, 95463
 100026, 22739, 77287
 100028, 22741, 77287
 100030, 4567, 95463
 100032, 12263, 87769
 100034, 36563, 63471
 100036, 42649, 57387
 100038, 12269, 87769
 100040, 23143, 76897
 100042, 36571, 63471
 100044, 43973, 56071
 100046, 4583, 95463
 100048, 24877, 75171
 100050, 12281, 87769

$$G = 10^{5000}$$

n - G b n - b - G

100000, 31147, 68853
100002, 309371, -209369

100004, 31151, 68853
540561

100006, 31153, 68853
100008, 12569, 87439

100010, 13553, 86457
100012, 31159, 68853
100014, 108923, -8909
100016, 12577, 87439
100018, 592237, -492219
100020, 104987, -4967
100022, 12583, 87439
100024, 13567, 86457
100026, 18287, 81739
100028, 12589, 87439
100030, 31177, 68853
100032, 61871, 38161
100034, 13577, 86457
100036, 31183, 68853
108947, -8909
100040, 12601, 87439
100042, 31189, 68853
100044, 457091, -357047
100046, 18307, 81739
100048, 13591, 86457

n - G b n - b - G

100050, 12611, 87439
100052, 12613, 87439

100054, 13597, 86457

100056, 105023, -4967
100058, 12619, 87439

100060, 54151, 45909
100062, 108971, -8909
100064, 103091, -3027
100066, 87943, 12123
100068, 18329, 81739
100070, 13613, 86457
100072, 31219, 68853
100074, 264881, -
100076, 12637, 87439
100078, 107971, -7893
100080, 12641, 87439
100082, 76913, 23169
100084, 13627, 86457
100086, 12647, 87439
100090, 13633, 86457
100092, 12653, 87439
100094, 61933, 38161
100096, 87973, 12123
100098, 12659, 87439

n - G b n - b - G

100100, 31247, 68853
100102, 31249, 68853
100104, 105071, -4967
100106, 13649, 86457
100108, 640669, -

100110, 12671, 87439
100112, 31259, 68853
100114, 87991, 12123
100116, 122033, -21917
100118, 18379, 81739

10038, 108947, -8909

100038,

100088, 61927, 38161

100120, 31267, 68853

100122, 61961, 38161

100124, 31271, 68853

100126, 13669, 86457

100128, 12689, 87439

100130, 31277, 68853

100132, 76963, 23169

100134, 122051, -21917

100136, 12697, 87439

100138, 13681, 86457

100140, 18401, 81739

100142, 12703, 87439

100144, 13687, 86457

100146, 152993, -52847

100148, 13691, 86457

100150, 13693, 86457

1000000, 35509, 964491

1000002, 113, 999889

1000004, 69193, 930811

1000006, 95233, 904773

1000008, 69197, 930811

1000010, 31873, 968137

1000012, 35521, 964491

1000014, 69203, 930811

1000016, 127, 999889

1000018, 35527, 964491

1000020, 131, 999889

